

Amendments to the Claims:

Claims 1, 16 and 41 have been amended herein. Please note that all claims currently pending and under consideration in the referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application. Please cancel claims 25 through 40, without prejudice to the filing of one or more divisional applications including same.

Listing of Claims:

1. (Currently amended) A plasma reactor, comprising each openly: one or more of first, second and third power generators coupled to each one of upper and lower electrodes; and a controller for selectively activating the first, second and third power generators.
2. (Previously presented) The plasma reactor of claim 1 wherein the first power generator is coupled to the upper electrode and the second and third power generators are coupled to the lower electrode.
3. (Previously presented) The plasma reactor of claim 2 wherein the second power generator is configured to operate at a frequency of at least three times an operational frequency of the third power generator.
4. (Previously presented) The plasma reactor of claim 2 wherein the first power generator is configured to operate at a frequency of at least greater than or equal to each of an operational frequency of the second power generator and an operational frequency of the third power generator.
5. (Previously presented) The plasma reactor of claim 2 wherein the controller is operable to place the first power generator in an inactive mode and the second and third power

generators in an active mode.

6. (Previously presented) The plasma reactor of claim 2 wherein the controller is operable to place the first and third power generators in an active mode and the second power generator in an inactive mode.

7. (Previously presented) The plasma reactor of claim 2 wherein the controller is operable to place the first and second power generators in an active mode and the third power generator in an inactive mode.

8. (Previously presented) The plasma reactor of claim 2 wherein the controller is operable to place the first, second and third power generators in an active mode.

9. (Previously presented) The plasma reactor of claim 2 wherein the controller during a process is operable to configure the first, second and third power generators to a first activation configuration during a first phase thereof and to reconfigure the first, second and third power generators to a second activation configuration during a second phase thereof.

10. (Previously presented) The plasma reactor of claim 2 wherein the controller is operable to configure the first, second and third power generators to a plurality of activation configurations during a corresponding plurality of phases of a duty cycle of a process.

11. (Previously presented) The plasma reactor of claim 10 wherein the controller is further operable to control power levels of the first, second and third power generators during the plurality of activation configurations.

12. (Previously presented) The plasma reactor of claim 1 wherein each of the first, second and third power generators is capacitively coupled to one of the upper and lower electrodes.

13. (Previously presented) The plasma reactor of claim 1 wherein the second power generator operates at a frequency of about 13.5 MHz to about 60 MHz.

14. (Previously presented) The plasma reactor of claim 1 wherein the first power generator operates at a frequency of about 40 MHz to about 100 MHz.

15. (Previously presented) The plasma reactor of claim 1 wherein the third power generator operates at a frequency of about 1 MHz to about 13.5 MHz.

16. (Currently amended) A plasma reactor, comprising:
a vacuum chamber including upper and lower electrodes therein;
one or more of first, second and third power generators respectively operably coupled to each one
of the upper and lower electrodes; and
a controller for selectively activating the first, second and third power generators.

17. (Previously presented) The plasma reactor of claim 16 further comprising a wafer table, wherein the lower electrode is coupled to the wafer table and the upper electrode is arranged above the wafer table.

18. (Previously presented) The plasma reactor of claim 16 wherein each of the first, second and third power generators is capacitively coupled to one of the upper and lower electrodes.

19. (Previously presented) The plasma reactor of claim 16 wherein the first power generator is capacitively coupled to the upper electrode and the second and third power generators are capacitively coupled to the lower electrode.

20. (Previously presented) The plasma reactor of claim 19 wherein the second power generator is configured to operate at a frequency of at least three times a frequency of the third power generator.

21. (Previously presented) The plasma reactor of claim 20 wherein the second power generator is configured to operate at a frequency of about 13.5 MHz to about 60 MHz.

22. (Previously presented) The plasma reactor of claim 20 wherein the first power generator is configured to operate at a frequency of about 40 MHz to about 100 MHz.

23. (Previously presented) The plasma reactor of claim 20 wherein the third power generator is configured to operate at a frequency of about 1 MHz to about 13.5 MHz.

24. (Previously presented) The plasma reactor of claim 16 wherein the controller is operable to place the first, second and third power generators in a plurality of activation configurations during a corresponding plurality of phases of a duty cycle of a process.

Claims 25-40 (Canceled)

41. (Currently amended) A plasma reactor, comprising:
one or more of first, second and third power generators each operably coupled to each one of upper and lower electrodes; and
a controller operably coupled to each of the first, second and third power generators, the controller further configured to selectively activate the first, second and third power generators in accordance with a variable duty cycle including at least first and second phases.